

Marino\WARE® Product Submittal Data

PRODUCT NAME: 362SR200-33

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 358RJ20

PROPERTIES:

| | | | |
|-------------------------|------------|---|---------|
| A. Web (in) | 3.625" | Yield Strength F_y (KSI) | 33 |
| B. Flange (in) | 2" | Tensile Strength F_u (KSI) | 45 |
| C. Lip (in) | 0.625" | Design Thickness (in) | 0.0346" |
| Mils | 33 | Minimum Thickness (in) | 0.0329 |
| Available Finish | CP60, CP90 | Gauge | 20 STR |

SECTION PROPERTIES

GROSS SECTION PROPERTIES

| | |
|--|-------|
| Weight of Member: (lb/ft) | 0.92 |
| Cross Sectional Area: A (in ²) | 0.260 |
| Moment of Inertia: I_x (in ⁴) | 0.649 |
| Section Modulus: S_x (in ³) | 0.358 |
| Radius of Gyration: R_x (in) | 1.58 |
| Gross Moment of Inertia: I_y (in ⁴) | 0.146 |
| Gross Radius of Gyration: R_y (in) | 0.748 |

EFFECTIVE SECTION PROPERTIES

| | |
|---|-------|
| Moment of Inertia-Deflection: I_{xed} (in ⁴) | 0.638 |
| Section Modulus: S_{xe} (in ³) | 0.319 |
| Allowable Bending Moment: M_a (in-k) | 6.30 |
| Allowable Shear Force: V_a (K) | 0.216 |

TORSIONAL SECTION PROPERTIES

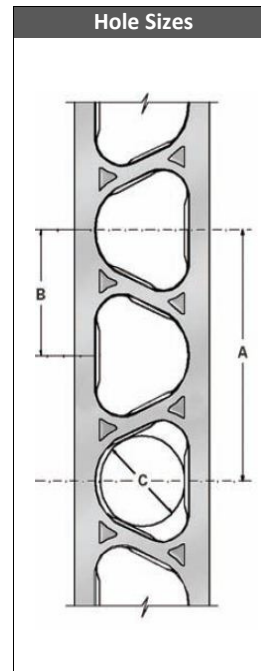
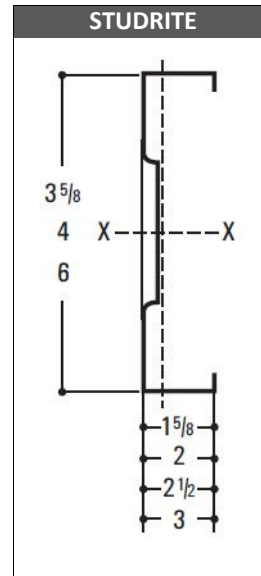
| | |
|--|-------|
| St. Venant Torsional Constant: J_{x1000} (in ⁴) | 0.104 |
| Torsional Warping Constant: C_w (in ⁶) | 0.562 |
| Distance From Shear Center To Centroid Principle x-axis x_o (in.) | -1.89 |
| Distance From Shear Center To Mid-Plane of Web m (in.) | 1.05 |
| Radius of Gyration on the Centroid Principal axis: r_o (in.) | 2.58 |
| $1 - (x_o/r_o)^2 = \beta$ | 0.460 |
| Critical Unbraced Length, lateral torsional buckling excluded L_u (in.) | 50.6 |

CODES & STANDARDS

- Meets ASTM A 1003, A 653, C955 & AISI S240
- Coating meets ASTM C 955 / AISI S240
- Meets IBC 2021, 2018
- IAPMO ES ER-0781

GREEN INFO

- LEED v4 credits available
- Contact Technical Services for more information



| Section | A (in) | B (in) | C |
|---------|--------|--------|-------|
| 3-5/8" | 7.0 | 3.5 | 1-3/4 |
| 4" | 7.0 | 3.5 | 1-3/4 |
| 6" | 8.1 | 4.0 | 2-7/8 |



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

This technical information reflects the most current information available and supersedes any and all publications, effective 7/1/2021
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